# ⅛ DIN Digital Panel RTD Meters

**DP63200-RTD**


**DP63200-RTD shown actual size.**

- **RTD Meter**
- **4-Digit, 14.2 mm (0.56") LED**
- **Accepts Standard 3-Wire 100 Ω RTD Sensors (ALPHA = 0.00385 or ALPHA =0.00392)**
- **Conforms to ITS-90 Standards**
- **Selectable °F or °C with 0.1 or 1 Degree Display Resolution**
- **Programmable Temperature Offset**
- **Programmable Digital Filtering**
- **Peak/Valley (High/Low Reading) Memory**
- **NEMA 4X (IP65) Sealed Front Bezel**
- **Custom Units Overlay with Backlight**

The DP63000-RTD meter accepts standard RTD inputs and precisely linearizes them into temperature readings. A full 4-digit display accommodates a wide range of temperature inputs. State-of-the-art digital circuitry virtually eliminates errors due to drift. The meter features a readout choice of either Fahrenheit or Celsius with 0.1 or 1° resolution. Display prompts and front panel buttons aid the operator through set-up and operation. Programmable digital filtering enhances the stability of the reading. All set-up data is stored in EEPROM, which will hold data for a minimum of 10 years without power. The meter provides a peak "HI" and valley "LO" reading memory with selectable capture delay time. The capture delay is used to prevent detection of false peak or valley readings that may occur during start-up or unusual process events. The peak and valley readings are stored at power-down, allowing process limits to be monitored over any length of time. The meter has several built-in diagnostic functions to alert operators of any malfunction. Extensive testing of noise interference mechanisms and full burn-in makes the meter extremely reliable in industrial environments. The front bezel meets NEMA 4X (IP65) requirements for wash-down applications.

## Specifications

**Display:** 4-digit, 14.2 mm H (0.56") LED, minus sign displayed for negative temperatures

**Power:** 85 to 250 Vac, 50/60 Hz, 6 VA

**Isolation:** 2300 Vrms for 1 minute between input and supply (300V working voltage)

**Resolution:** 0.1 or 1°

**Range (Decimal Point Dependent):**
**0.1° Res:** -199.9 to 850.0°C (-199.9 to 999.9°F)
**1° Res:** -200 to 850°C (-328 to 1562 °F)

**Lead Resistance Effect:** 20 Ω max, 2.5 °C/Ω error for V exc and common lead unbalance

**Accuracy:** 0.3°C, @ 23°C and 30 minute warm-up

**Reading Rate:** 2.5 readings/s

**Response Time:** 2 s to settle for step input (increases with programmable digital filtering)

**Low-Frequencey Noise Rejection:**
**Normal Mode Rejection:** 40 dB @ 50/60 Hz (may be improved by programmable digital filtering)
**Common Mode Rejection:** 120 dB, DC to 50/60 Hz

**Environmental Conditions:**
**Operating Temperature Range:** 0 to 50°C (32 to 122°F)
**Storage Temperature Range:** -40 to 80°C (-40 to 176°F)
**Operating and Storage Humidity:** 85% max RH non-condensing from 0 to 50°C (32 to 122°F)

**Span Drift:** 50 ppm/°C

**Zero Drift:** 0.001°C/°C

**Altitude:** Up to 2000 m (6562')

**Construction:** This unit is rated for NEMA 4X (IP65) indoor use, 1 piece bezel/case, flame-resistant—panel gasket and mounting clip included

**Connections:** High-compression, cage-clamp terminal block

**Dimensions:** 104.1 D x 91.4 W x 44.5 mm H (4.10 x 3.50 x 1.75)

**Weight:** 0.24 kg (0.65 lb)

## To Order

| Model No. | Description |
|---|---|
| **DP63200-RTD** | RTD input, 85 to 250 Vac, 50/60 Hz |

*Comes complete with operator's manual.*
***Ordering Example: DP63200-RTD,** RTD input, 85 to 250 Vac, 50/60 Hz.*

### Accessories

| Model No. | Description |
|---|---|
| **DPP-5** | ⅛ DIN panel punch |